



U.S. DEPARTMENT OF
ENERGY

Overview of DOE's Environmental Management Program

*National Conference of State Legislatures
Nuclear Legislative Workgroup*

June 2011



EM *Environmental Management*

safety ♦ performance ♦ cleanup ♦ closure

www.em.doe.gov

EM Mission

“Complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development, production, and Government-sponsored nuclear energy research”



- From a legacy of weapons production to the world's largest environmental cleanup effort
- Supporting continuing DOE & NNSA missions
- Operating in the world's most complex regulatory environment
- Nearly 30,000 federal and contractor workers



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EM Mission

“Complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development, production, and Government-sponsored nuclear energy research”



- Largest environmental cleanup effort in the world *originally* involving 2 million acres.
- Operating in the world’s most complex nuclear waste regulatory system
- Safely performing work in challenging environments involving some of the most dangerous materials known to man
- Solving highly complex technical problems with transformational technologies
- Supporting other continuing DOE missions and stakeholder partnerships



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Five Decades of Nuclear Research and Weapons Production – The Legacy



4,500 facilities to decontaminate and demolish



More than 10,000 groundwater and soil sites to protect and clean up

To put it in perspective, the total amount of radioactive waste **would fill the Superdome.**



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The Inherently High-Risk Work of Nuclear Cleanup

We work with some of the most **dangerous substances** known to humanity...



Workers using glovebox to handle plutonium



Holding basin for spent nuclear fuel

Performing **first-of-a-kind tasks** in highly hazardous work environments



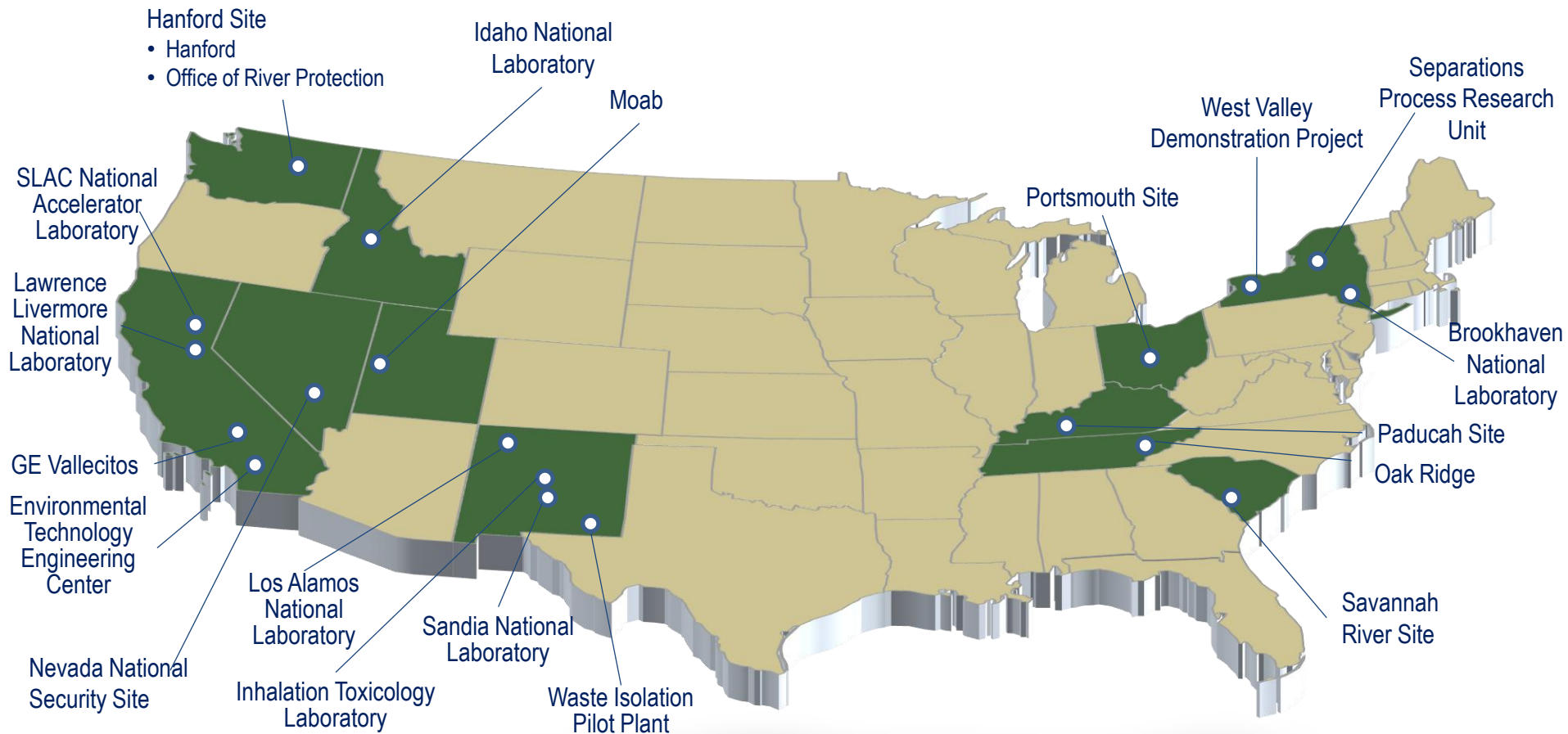
Working with high-level waste



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Size of the EM Program	Original	Current
Number of States	35	11
Number of Sites	110	18
Square Miles	3,125	559

FY 2010 Appropriation: \$6B

FY 2012 Request: \$6.1B

**Life Cycle Cost & Schedule:
\$275-308B 2050-2062**



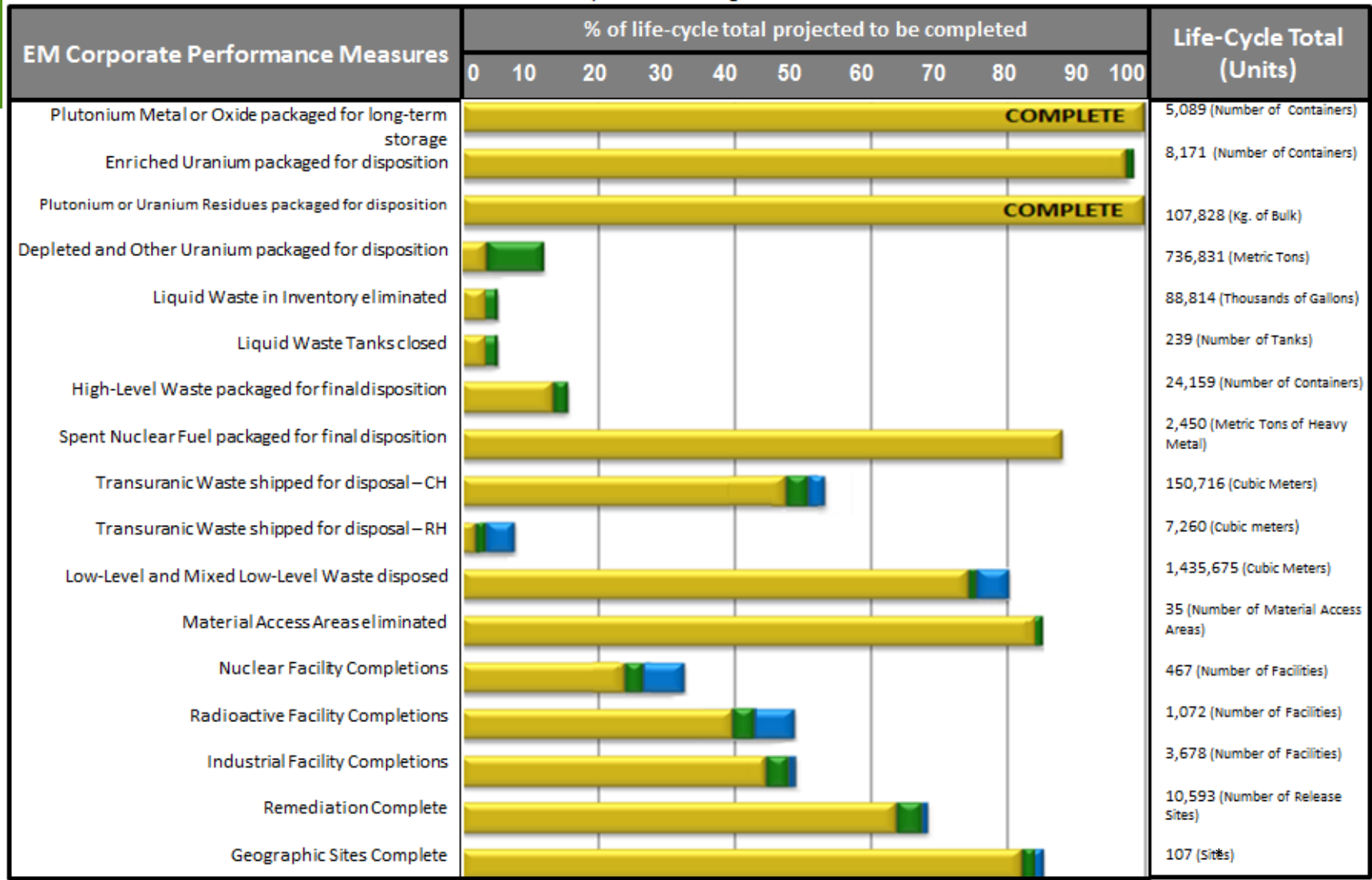
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Corporate Performance Metric Life-Cycle Chart


Completions through FY 2012



Legend

 EM Actuals to Date (including FY 2010 Actuals for both ARRA and BASE)

 FY 2011 and FY 2012 Targets - BASE

 FY 2011 and FY 2012 Targets - ARRA



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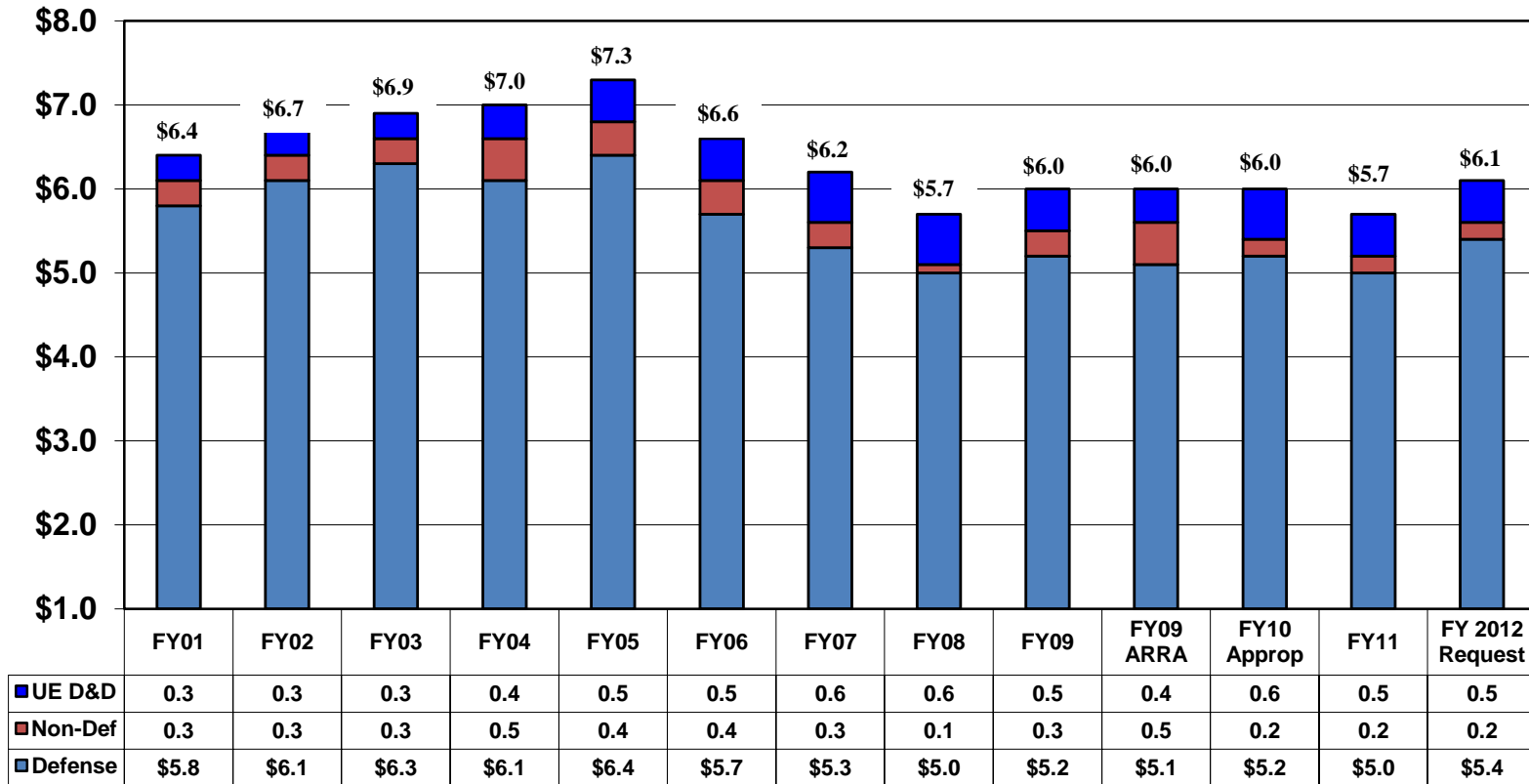
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* Original 110 Sites changed legislatively in 1998. Current inventory is 107 Sites.

EM Funding History

Levelized in Recent Years

(dollars in billions)



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